Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A hydrophilic, water-wettable, semipermeable hollow-fibre membrane, based on a synthetic first polymer, particularly for hemodialysis, hemodiafiltration or and hemofiltration, based on a synthetic hydrophilic polymer

that forms the membrane structure or a combination of a
PAGE 2/10* RCVD AT 4/11/2007 2:03:06 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/36* DNIS:2738300* CSID:704 927 0485* DURATION (mm-ss):03-54

- 0.005, whereby the hollow-fibre membrane in the dry state is free from pore-stabilising additives in the membrane wall. 7 characterised in that a polyelectrolyte-with negative fixed charges is physically bound in the separating layer.
- 2. (currently amended) Hollow-fibre membrane according to Claim 1, characterised in that it also comprises a hydrophobic first-polymer that forms the membrane structure and a hydrophilic second polymer.
- 3. (currently amended) Hollow-fibre membrane according to Claim 1 2, characterised in that the synthetic first polymer is a hydrophobic first polymer is an aromatic sulfone polymer such as polysulfone, polyethersulfone, polyphonylenesulfone or polyarylethersulfone, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphonylene sulfide, or a copolymer or mixture of these polymers and the hollow-fibre membrane also comprises a hydrophilic second polymer.
- 4. (currently amended) Hollow-fibre membrane according to Claim 3, characterised in that the hydrophobic first polymer is a an aromatic sulfone polymer such as polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone, a polycarbonate, polyimide, polyetherimide, polyetherketone,

polyphenylene sulfide, or a copolymer or a modification of these polymers, or a mixture of these polymers polysulfone or a polyethersulfone.

- 5. (currently amended) Hollow-fibre membrane according to Claim 1 4, characterised in that the hydrophilic <u>first second</u> polymer is polyvinylpyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol-monoester, polysorbate, carboxymethylcellulose, or a copolymer of these polymers polysulfone or a polyethersulfone.
- 6. (currently amended) Hollow-fibre membrane according to Claim ± 2, characterised in that the supporting layer extends from the separating layer across-escentially-the entire wall of the hollow-fibre membrane, has a sponge like structure and is free-from-finger pores hydrophilic second polymer is polyvinylpyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a modification or copolymer of these polymers.
- 7. (currently amended) Hollow-fibre membrane according to Claim 1, characterised in that the supporting layer extends from the separating layer across essentially the entire wall of the hollow-fibre membrane, has a sponge-like structure and is

free from finger pores it has a minimum sieving coefficient for eytochrome c-of-0.85.

- (currently amended) Hollow-fibre membrane according 8. to Claim 1, characterised in that it has a minimum si<u>eving</u> coefficient for cytochrome c of 0.85 maximum sieving-coefficient for-albumin of 0.003.
- 9. (currently amended) Hollow-fibre membrane according to Claim 1, with an ultrafiltration rate in albumin solution in the range of 30 to 55 ml/(hm2mmHg) characterised in that it has a maximum sieving coefficient for albumin of 0.003.
- (currently amended) Method for producing a 10. hydrophilic, water-wettable, semipermeable hollow-fibre membrane according to Claim 1, the method comprising the following steps:
 - a. preparing a homogeneous spinning solution comprising 12 to 30 wt. 7, relative to the weight of the spinning solution, of a synthetic first hydrophilic polymer or 12 to 30 wt.%. relative to the weight of the spinning solution, of a synthetic first-polymer in combination with 0.1-to-30 wt. %, -relative to the weight-of the spinning solution, of a hydrophilic second polymer, wherein the synthetic first polymer in the case of the

combination can be hydrophilic or hydrophobic, and, if applicable necessary, other additives in a solvent system,

- extruding the spinning solution through the annular
 slit of a hollow-fibre die to give a hollow fibre,
- c. extruding an interior filler through the central opening of the hollow-fibre die, the interior filler being a coagulation medium for the synthetic first polymer and comprising a solvent and a non-solvent for the synthetic first polymer,
- d. bringing the interior filler into contact with the inner surface of the hollow fibre to initiate coagulation in the interior of the hollow fibre and for formation of a separating layer on the inner surface of the hollow fibre and formation of the membrane structure,
- e. passing the hollow fibre through a coagulation bath to complete the formation of the membrane structure if necessary, and to fix the membrane structure,
- f. extracting the hollow-fibre membrane thus formed to remove the solvent system and soluble substances,
- g. drying the hollow-fibre membrane, characterised in that the interior filler contains a polyelectrolyte with negative fixed charges, wherein the

proportion by weight of the polyelectrolyte is 0.025 to 5 wt.%, relative to the weight of the interior filler, and the steps of the method are to be carried out in such a way that as a result of which a hollow-fibre membrane according to Claim 1 is obtained with a minimum sieving coefficient for cytochrome c of 0.80 combined with a maximum sieving coefficient for albumin of 0.005.

- 11. (currently amended) Method according to Claim 10, characterised in that the spinning solution contains 12 to 30 wt.%, relative to the weight of the spinning solution, of a hydrophobic synthetic first polymer in combination with 0.1 to 30 wt.%, relative to the weight of the spinning solution, of a hydrophilic second polymer.
- 12. (currently amended) Method according to Claim 11, characterised in that an aromatic sulfone polymer such as polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or mixture of these polymers is used as the hydrophobic synthetic first polymer.

- 13. (currently amended) Method according to Claim 11, 10, that polyvinyl-pyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a copolymer of these polymers is used as the hydrophilic second polymer.
- 14. (previously presented) Method according to Claim 10, characterised in that the solvent system comprises a polar aprotic solvent.
- 15. (previously presented) Method according to Claim 10, characterised in that the polyelectrolyte is selected from the group of polyphosphoric acids, polysulfonic acids or polycarboxylic acids.
- 16. (original) Method according to Claim 15, characterised in that the polycarboxylic acids are homo- or copolymers of acrylic acid.
- 17. (previously presented) Method according to Claim 10, characterised in that the proportion by weight of the polyelectrolyte relative to the weight of interior filler is 0.01 to 1 wt.%

Add new claims 18 and 19 as follows:

- 18. (new) Hollow-fibre membrane according Claim 1, characterised in that a polyelectrolyte with negative fixed charges is physically bound in the separating layer.
- 19. (new) Hollow-fibre membrane according to Claim 1, with an ultrafiltration rate in albumin solution in the range of 30 to 55 ml/($h \cdot m^2 \cdot mmHg$).